

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P247940

Luminaire Tested: **LSR8B150D010 EC8B150927 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247940  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-70)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B150D010 EC8B150927 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12742.9 lumens  
Efficiency: N/A  
Efficacy: 80.4 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

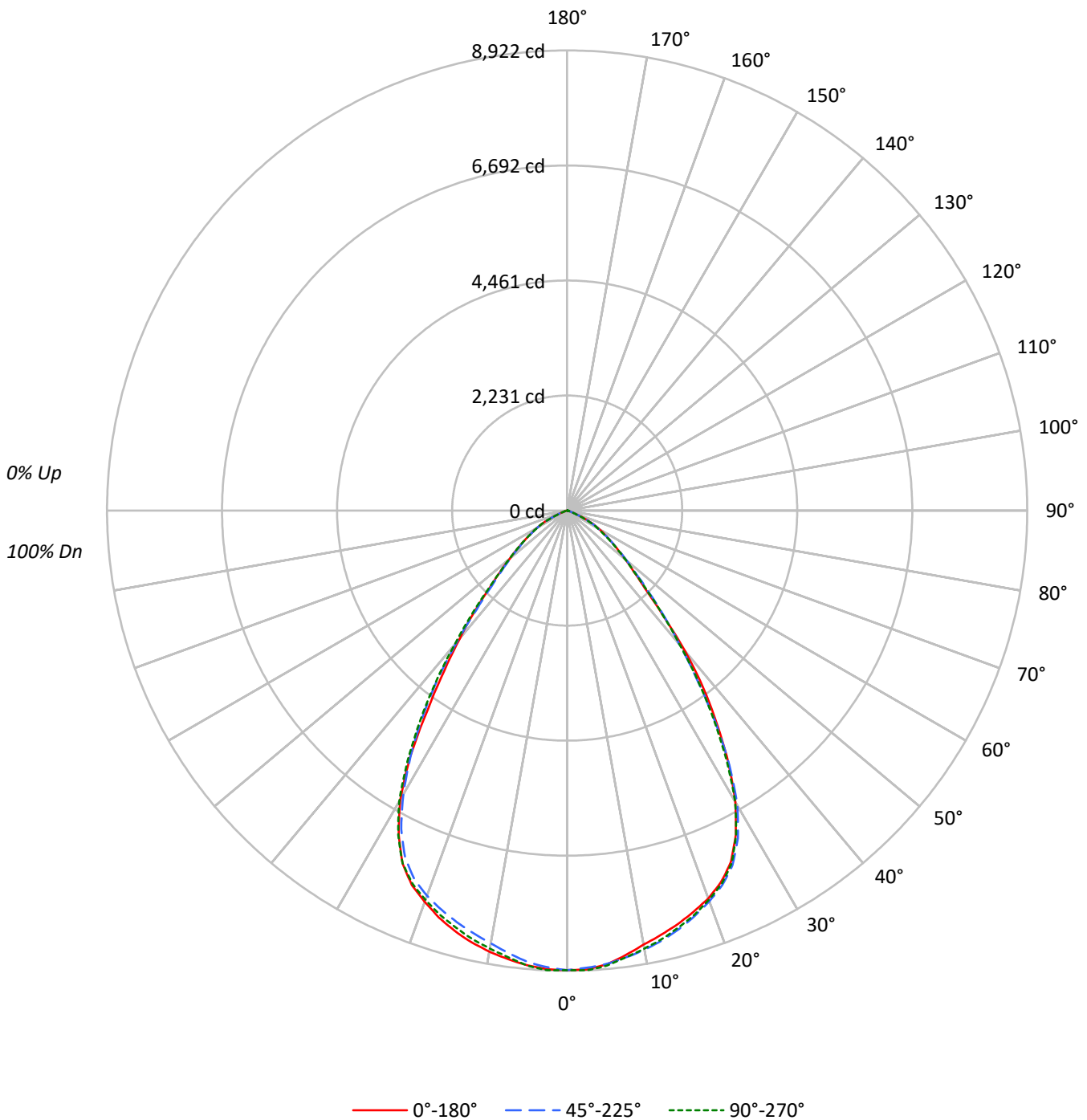
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55
7	76	65	58	53	75	65	58	53	63	57	53	62	57	53	61	56	52	51
8	72	61	54	49	71	60	54	49	59	53	49	58	52	48	57	52	48	47
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	834.6	6.5
10°-20°	2353.0	18.5
20°-30°	3411.5	26.8
30°-40°	3066.5	24.1
40°-50°	1728.0	13.6
50°-60°	920.7	7.2
60°-70°	368.0	2.9
70°-80°	49.0	0.4
80°-90°	11.6	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	6599.2	51.8
0°-40°	9665.7	75.9
0°-60°	12314.4	96.6
0°-90°	12742.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12742.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	8911	8911	8911	8911	8911	
5°	8831	8823	8856	8786	8851	833
15°	8298	8394	8364	8261	8434	2341
25°	7516	7586	7545	7428	7551	3412
35°	5077	5004	4963	4894	4715	3150
45°	2122	2237	2178	2075	2128	1743
55°	1032	1036	1014	990	1005	941
65°	397	378	351	341	355	393
75°	31	40	38	38	31	46
85°	2	10	5	13	3	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	8910.9	8910.9	8910.9	8910.9	8910.9	8910.9	8910.9	8910.9	8910.9
2.5°	8904.6	8885.8	8871.8	8898.3	8921.8	8857.6	8862.3	8890.5	8899.9
5°	8831.0	8813.7	8823.2	8845.1	8856.0	8775.3	8786.4	8834.1	8851.4
7.5°	8693.1	8706.5	8740.1	8768.4	8735.4	8640.7	8656.3	8738.6	8772.2
10°	8543.5	8574.9	8645.3	8678.2	8622.7	8501.2	8519.2	8629.6	8683.0
12.5°	8424.4	8458.9	8532.6	8557.6	8508.3	8377.4	8396.2	8510.6	8574.1
15°	8297.6	8328.9	8393.8	8414.2	8364.2	8243.6	8260.8	8370.4	8433.9
17.5°	8154.2	8181.7	8239.6	8258.4	8214.5	8086.8	8114.3	8216.1	8271.7
20°	8003.0	8022.6	8063.3	8074.4	8032.0	7935.6	7948.2	8035.9	8072.0
22.5°	7797.0	7822.1	7859.7	7871.4	7832.2	7726.5	7738.3	7824.5	7863.6
25°	7515.8	7552.6	7586.3	7601.2	7544.8	7404.6	7428.0	7501.7	7551.1
27.5°	7079.5	7109.3	7168.8	7170.4	7092.8	6947.1	6966.7	7061.5	7074.0
30°	6518.7	6546.0	6598.6	6586.8	6512.4	6339.3	6354.9	6447.4	6468.5
32.5°	5831.7	5841.9	5856.0	5852.0	5761.2	5679.8	5647.6	5658.6	5666.4
35°	5076.6	5094.6	5003.8	4954.4	4963.0	4970.0	4894.1	4781.2	4714.8
37.5°	4345.0	4258.8	4146.9	4108.4	4179.7	4203.2	4134.3	3965.8	3904.0
40°	3549.9	3473.2	3384.7	3391.8	3390.2	3406.6	3319.6	3257.8	3236.6
42.5°	2732.2	2733.0	2790.9	2751.0	2743.1	2628.8	2595.0	2629.6	2667.2
45°	2122.0	2192.5	2237.2	2225.4	2177.5	2075.0	2075.0	2135.2	2128.3
47.5°	1746.8	1771.9	1805.5	1803.2	1768.7	1693.5	1706.1	1747.6	1768.7
50°	1476.6	1487.5	1503.1	1489.8	1468.7	1421.7	1420.9	1449.9	1462.4
52.5°	1235.2	1241.6	1237.6	1230.5	1218.8	1193.7	1186.0	1210.2	1213.3
55°	1032.4	1044.1	1035.6	1016.0	1013.6	990.9	990.1	1009.7	1005.0
57.5°	860.1	848.4	836.6	820.1	817.8	810.7	818.6	821.7	817.0
60°	715.9	716.7	694.0	678.4	676.8	666.6	677.6	686.1	686.1
62.5°	576.6	573.4	559.2	535.7	539.7	535.7	540.4	542.0	535.1
65°	397.1	397.9	378.3	350.1	350.9	347.7	340.8	351.7	354.8
67.5°	211.5	209.9	195.1	184.8	180.9	182.5	190.4	192.7	184.0
70°	115.2	111.3	114.4	103.4	105.8	101.8	105.8	112.0	109.7
72.5°	58.7	62.7	56.4	51.8	57.9	57.2	66.6	61.1	54.8
75°	31.4	33.6	39.9	36.8	38.4	36.8	37.6	35.2	31.4
77.5°	22.7	25.1	29.0	28.2	27.4	25.9	29.0	32.1	25.9
80°	13.3	16.4	18.0	21.2	18.8	21.2	24.3	19.6	15.6
82.5°	8.7	13.3	13.3	14.1	20.4	13.3	21.9	19.6	15.6
85°	1.6	2.4	9.5	5.5	4.7	14.1	13.3	10.2	3.2
87.5°	0.0	5.5	12.5	6.3	10.2	9.5	13.3	14.1	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)